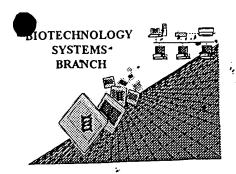# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: __09/943,115__

Source: __6/PE__

Date Processed by STIC: __9/21/2001__

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker·

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/943,115

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1_____Wrapped Nucleics
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2_____Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3_____Misaligned Amino
Numbering

The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4_____Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5_____Variable Length

Sequence(s)_____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6_____PatentIn 2.0
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7_____Skipped Sequences
(OLD RULES)

Sequence(s)_____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8_____Skipped Sequences
(NEW RULES)

Sequence(s)_____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9_____Use of n's or Xaa's
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10_____Invalid <213>
Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11_____Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12_____PatentIn 2.0
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13_____Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

OIPE

RAW SEQUENCE LISTING   DATE: 09/21/2001
PATENT APPLICATION: US/09/943,115   TIME: 20:43:25

Input Set : A:\GG119-3US.ST25.txt
Output Set: N:\CRF3\09212001\I943115.raw

Does Not Comply
Corrected Diskette Needed

```
 3 <110> APPLICANT: Risinger, Carl
 4         Andersson, Maria K.
 5         Lewander, Tommy
 6         Olaisson, Erik
 8 <120> TITLE OF INVENTION: Detection of CYP3A4 and CYP2C9 Polymorphisms
10 <130> FILE REFERENCE: GG119.3US
12 <140> CURRENT APPLICATION NUMBER: US/09/943,115
12 <141> CURRENT FILING DATE: 2001-08-30
12 <150> PRIOR APPLICATION NUMBER: GB 0021286.0
13 <151> PRIOR FILING DATE: 2000-08-30
15 <160> NUMBER OF SEQ ID NOS: 72
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 1345
21 <212> TYPE: DNA
22 <213> ORGANISM: homo sapiens
24 <400> SEQUENCE: 1
25 ctgcagtgac cactgcccca tcattgctgg ctgaggtggt tggggtccat ctggctatct    60
27 gggcagctgt tctcttctct cctttctctc ctgtttccag acatgcagta tttccagaga   120
29 gaaggggcca ctctttggca aagaacctgt ctaacttgct atctatggca ggacctttga   180
31 agggttcaca ggaagcagca caaattgata ctattccacc aagccatcag ctccatctca   240
33 tccatgccct gtctctcctt taggggtccc cttgccaaca gaatcacaga ggaccagcct   300
35 gaaagtgcag agacagcagc tgaggcacag ccaagagctc tggctgtatt aatgacctaa   360
37 gaagtcacca gaaagtcaga aggatgcata gcagaggccc agcaatctca gctaagtcaa   420
39 ctccaccagc ctttctagtt gcccactgtg tgtacagcac sctggtaggg accagagcca   480
41 tgacaggaa taagactaga ctatgccctt gaggagctca cctctgttca gggaaacagg   540
43 cgtggaaaca caatggtggt aaagaggaaa gaggacaata ggattgcatg aaggggatgg   600
45 aaagtgccca ggggaggaaa tggttacatc tgtgtgagga gtttggtgag gaaagactct   660
47 aagagaaggc tctgtctgtc tgggtttgga aggatgtgta ggagtcttct aggggggcaca   720
49 ggcacactcc aggcataggt aaagatctgt aggtgtggct tgttgggatg aatttcaagt   780
51 attttggaat gaggacagcc atagagacaa gggcargaga gaggcgattt aatagatttt   840
53 atgccaatgg ctccacttga gtttctgata agaacccaga acccttggac tccccagtaa   900
55 cattgattga gttgtttatg atacctcata gaatatgaac tcaaaggagg tcagtgagtg   960
57 gtgtgtgtgt gattctttgc caacttccaa ggtggagaag cctcttccaa ctgcaggcag  1020
59 agcacaggtg gccctgctac tggctgcagc tccagccctg cctccttctc tagcatataa  1080
61 acaatccaac agcctcactg aatcactgct gtgcagggca ggaaagctcc atgcacatag  1140
63 cccagcaaag agcaacacag agctgaaagg aagactcaga ggagagagat aagtaaggaa  1200
65 agtagtgatg gctctcatcc cagacttggc catggaaacc tggcttctcc tggctgtcag  1260
67 cctggtgctc ctctatctgt gagtaactgt tcaggctcct cttctctgtt tcttggactt  1320
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72 <210> SEQ ID NO: 2
73 <211> LENGTH: 19
74 <212> TYPE: DNA
75 <213> ORGANISM: synthetic
77 <400> SEQUENCE: 2
78 acaagggcaa gagagaggc
81 <210> SEQ ID NO: 3
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see item 10 on Err Summary Sheet

19

Input Set : A:\GG119-3US.ST25.txt
Output Set: N:\CRF3\09212001\I943115.raw

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83  <212> TYPE: DNA
84  <213> ORGANISM: synthetic
86  <400> SEQUENCE: 3                                                    19
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93  <213> ORGANISM  synthetic
95  <400> SEQUENCE: 4                                                    10
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99  <210> SEQ ID NO: 5
100 <211> LENGTH: 10
101 <212> TYPE: DNA
102 <213> ORGANISM  synthetic
104 <400> SEQUENCE: 5                                                    10
105 agggcaggag
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109 <211> LENGTH: 2438
110 <212> TYPE: DNA
111 <213> ORGANISM: homo sapiens
113 <400> SEQUENCE: 6
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118 ctcctgagga atgaaatgat tattataaag acagcaaccg agcttatttt acccaaaata   180
120 aggtagtata tttctgttag agtttagagt ttcatgagtc agggaccaag ttattgcttt   240
122 tctttgccct gtataaaggc ttctccaagg cctttgactt acctaagtac taaatgttat   300
124 aaaaccaaac tcttctgacc tctcaatcta gtcaactggg gctgtaatta ttaatgaaat   360
126 taatgtttat tttgaaaata atttactaga ctgaattacg aaatcctgaa tcattgtaca   420
128 ctatcagtaa atattggtgg acccaactga actgaatgtt ttgcttgaaa tgaaaccttt   480
130 gagatgcagg gcttatgggt tctagtccca gctctagcac tagcagacag catgttcttg   540
132 gctaagatac tgaatcttca aggctcagct tcctcattcc ggaaatgggt caattttatt   600
134 gtaagcagag gtaattgaga gattcaaaag ggacatgagg tgtaacaatt ctctgtaaat   660
136 tgttagaatc cctgttaaaa atgaccagta aagctttgtg caactgtgtc ttgacataac   720
138 tttatttttc ttaataaaag aaatggaaat aacctcacta gggaatttag aacaaatatg   780
140 atgatatctt taaagaaaat ggctttgcac aagtattgac attaatgatc tagtaaagtg   840
142 tatctttcta gttgtattta gatcctcaac tcagtatgtc agctcctgtt aaggtctata   900
144 cattgtggtg gttctgtgct gtgggtccat ttagtgattt ccctacctcc catcttytat   960
146 tgcatccaca actgtggttc tgtccataat ttcctttgct ttctgtgcat tattacatca  1020
148 tatctgaaaa tgagaaacca aaaacaatrg aaagcagcca tgtctggagg tgactggggg  1080
150 gtcgagaagc cctagtttct caaaccctta gcaccaaatt tttccctcag ttacactgag  1140
152 cgtttcactt ctgcagtgat ggaraaggga gatcccttat ttcttctcat gagcatctct  1200
154 ggtgctgttt cccttagaga caaataaggg gttctattta atgtgaagcc tgttttatga  1260
156 acagaataaa tgtggtgtat attcagaata actaatgttt ggaagttgtt ttatttttgc  1320
158 taaaaattgt tctcaaggca gctctggtgt aagagataat acaccacgat gggcatcaga  1380
160 agacctcagc tcaaatccca gttctgccag ctatgagctg tgtggcacca acaggtgtcc  1440
162 tgttctccca gggtctccct tttcccattt gaaaaataaa aaataacaat tcctgccttc  1500
164 aggaattttt tttaggggt ttaatkgtaa aggtgtttat atctgctaag gtaatttact  1560
166 tgatatatgt ttggttattt aagatatatg agttatgtta gctatttcat gtttaggctg  1620
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RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/943,115**

DATE: 09/21/2001
TIME: 20:43:25

Input Set : **A:\GG119-3US.ST25.txt**
Output Set: **N:\CRF3\09212001\I943115.raw**

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168 ctgtattttt agtaggctat attaaatatt tgaaaggatt wmattataaa gaacaaagtc   1680
170 tcctaatctt tgatatagca ttgacatact tttttaaatat acaaggcata gaatatggcc   1740
172 atttctgtta aatcatatat tcccaactgg ttattaatct aagaattcag aattttgagt   1800
174 aattgctttt gcatcagatt atttacttca gtgctctcaa ttatgatggt gcattagaac   1860
176 catctgggtt aacatttgtt ttttattacc aatacctagg ctccaaccaa gtacagtgaa   1920
178 actggaatgt acagagtgga caatggaacg aaggagaaca agaccaaagg acattttatt   1980
180 tttatctgta tcagtgggtc aaagtccttt cagaaggagc atatagtgga cctaggtgat   2040
182 tggtcaattt atccatcaaa gaggcacaca ccgaattagc atggagtgtt ataaaaggct   2100
184 tggagtgcaa gctcatggtt gtcttaacaa gaagagaagg cttcaatgga ttctcttgtg   2160
186 gtccttgtgc tctgtctctc atgtttgctt ctcctttcac tctggagaca gagctctggg   2220
188 agaggaaaac tccctcctgg ccccactcct ctcccagtga ttggaaatat cctacagata   2280
190 ggtattaagg acatcagcaa atccttaacc aatgtaagta tgctccttca gtggcttgca   2340
192 aaaggtaagt aaattcacct gtatttttta aataaagtgt atccctagag gtacatgtta   2400
194 caagaggtaa tggtaaagta aaatactttg aaaggctt                            2438
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198 <211> LENGTH: 20
199 <212> TYPE: DNA
200 <213> ORGANISM: synthetic
202 <400> SEQUENCE: 7
203 ccagcctgaa agtgcagaga                                                    20
206 <210> SEQ ID NO: 8
207 <211> LENGTH: 25
208 <212> TYPE: DNA
209 <213> ORGANISM: synthetic
211 <400> SEQUENCE: 8
212 tcttagagtc tttcctcacc aaact                                             25
215 <210> SEQ ID NO: 9
216 <211> LENGTH: 20
217 <212> TYPE: DNA
218 <213> ORGANISM: synthetic
220 <400> SEQUENCE: 9
221 catgccctgt ctctccttta                                                   20
224 <210> SEQ ID NO: 10
225 <211> LENGTH: 19
226 <212> TYPE: DNA
227 <213> ORGANISM: synthetic
229 <400> SEQUENCE: 10
230 ccatcccctt catgcaatc                                                    19
233 <210> SEQ ID NO: 11
234 <211> LENGTH: 11
235 <212> TYPE: DNA
236 <213> ORGANISM: synthetic
238 <400> SEQUENCE: 11
239 agcaccctgg t                                                            11
242 <210> SEQ ID NO: 12
243 <211> LENGTH: 11
244 <212> TYPE: DNA
245 <213> ORGANISM: synthetic
247 <400> SEQUENCE: 12
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RAW SEQUENCE LISTING   DATE: 09/21/2001
PATENT APPLICATION: US/09/943,115 TIME: 20:43:25

Input Set : A:\GG119-3US.ST25.txt
Output Set: N:\CRF3\09212001\I943115.raw

```
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251 <210> SEQ ID NO: 13
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253 <212> TYPE: DNA
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256 <400> SEQUENCE: 13
257 accagggtgc t                                            11
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262 <212> TYPE: DNA
263 <213> ORGANISM: synthetic
265 <400> SEQUENCE: 14
266 accagcgtgc t                                            11
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270 <211> LENGTH: 11
271 <212> TYPE: DNA
272 <213> ORGANISM: synthetic
274 <400> SEQUENCE: 15
275 gtgtgtacag c                                            11
278 <210> SEQ ID NO: 16
279 <211> LENGTH: 11
280 <212> TYPE: DNA
281 <213> ORGANISM: synthetic
283 <400> SEQUENCE: 16
284 gctgtacaca c                                            11
287 <210> SEQ ID NO: 17
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289 <212> TYPE: DNA
290 <213> ORGANISM: synthetic
292 <400> SEQUENCE: 17
293 tggtccctac c                                            11
296 <210> SEQ ID NO: 18
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298 <212> TYPE: DNA
299 <213> ORGANISM: synthetic
301 <400> SEQUENCE: 18
302 ggtagggacc a                                            11
305 <210> SEQ ID NO: 19
306 <211> LENGTH: 25
307 <212> TYPE: DNA
308 <213> ORGANISM: synthetic
310 <400> SEQUENCE: 19
311 cactagggaa tttagaacaa atatg                             25
314 <210> SEQ ID NO: 20
315 <211> LENGTH: 23
316 <212> TYPE: DNA
317 <213> ORGANISM: synthetic
319 <400> SEQUENCE: 20
320 gcacagaaag caaaggaaat tat                               23
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RAW SEQUENCE LISTING   DATE: 09/21/2001
PATENT APPLICATION: US/09/943,115   TIME: 20:43:25

Input Set : A:\GG119-3US.ST25.txt
Output Set: N:\CRF3\09212001\I943115.raw

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324 <211> LENGTH: 27
325 <212> TYPE: DNA
326 <213> ORGANISM: synthetic
328 <400> SEQUENCE: 21
329 tgtatttaga tcctcaactc agtatgt                              27
332 <210> SEQ ID NO: 22
333 <211> LENGTH: 21
334 <212> TYPE: DNA
335 <213> ORGANISM: synthetic
337 <400> SEQUENCE: 22
338 ggatctccct tctccatcac t                                   21
341 <210> SEQ ID NO: 23
342 <211> LENGTH: 23
343 <212> TYPE: DNA
344 <213> ORGANISM: synthetic
346 <400> SEQUENCE: 23
347 ggtccattta gtgatttccc tac                                 23
350 <210> SEQ ID NO: 24
351 <211> LENGTH: 25
352 <212> TYPE: DNA
353 <213> ORGANISM: synthetic
355 <400> SEQUENCE: 24
356 atacaccaca tttattctgt tcata                               25
359 <210> SEQ ID NO: 25
360 <211> LENGTH: 22
361 <212> TYPE: DNA
362 <213> ORGANISM: synthetic
364 <400> SEQUENCE: 25
365 ccaaattttt ccctcagtta ca                                  22
368 <210> SEQ ID NO: 26
369 <211> LENGTH: 20
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371 <213> ORGANISM: synthetic
373 <400> SEQUENCE: 26
374 ttggtgccac acagctcata                                     20
377 <210> SEQ ID NO: 27
378 <211> LENGTH: 20
379 <212> TYPE: DNA
380 <213> ORGANISM: synthetic
382 <400> SEQUENCE: 27
383 gccttcagga attttttta                                      20
386 <210> SEQ ID NO: 28
387 <211> LENGTH: 25
388 <212> TYPE: DNA
389 <213> ORGANISM: synthetic
391 <400> SEQUENCE: 28
392 ccagttggga atatatgatt taaca                               25
395 <210> SEQ ID NO: 29
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The types of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors. _____

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/943,115

DATE: 09/21/2001
TIME: 20:43:26

Input Set : A:\GG119-3US.ST25.txt
Output Set: N:\CRF3\09212001\I943115.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date